

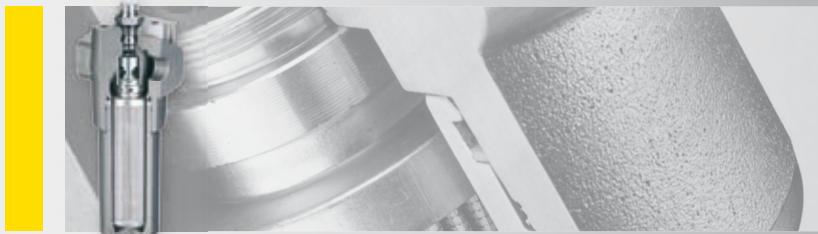


Local Solutions For Individual Customers Worldwide

Replacement Filter Elements



Pressure Filters



Return Line Filters



Spin-On Filters



Offline / Bypass Filters



Mobile Filter Systems



Filtration Technology

Product Overview



STAUFF Filtration Technology offers a complete range of filtration products and services. This will provide the system designer or user with the highest level of contamination control demanded by today's most sophisticated applications.

STAUFF Filtration Technology Products include Pressure Filters, Return Line Filters, Replacement Filter Elements, Spin-On Filters, Suction Strainers and Filler Breathers for various hydraulic, lubrication and fuel oils.

STAUFF has the technical expertise to provide superior filter element designs for the STAUFF original filter housings and also for the interchange element market.

STAUFF manufactures more than 10.000 different elements. Many of these are designed to fit into filter housings produced by other companies while maintaining or surpassing the original performance.

A well-stocked warehouse guarantees the possibility of short-term arrangements without their own storage. Therefore, we can react flexible for your specific needs.

The "STAUFF Contamination Control Program" comprised the diagnostic services including fluid sampling and laser particle counting products for monitoring the system contamination level. In addition STAUFF offers a range of software solutions for element interchange and filter calculation. All products are subject to the audits in reference to international standards. This ensures a consistently high standard of quality.

Please do not hesitate to contact STAUFF for further details.

www.stauff.com
www.filterinterchange.com





Complete Programm

STAUFF manufactures one of the most comprehensive ranges of replacement filter elements for hydraulic and lubrication applications which are compatible with most of the common competitor products.

The STAUFF Replacement Element Program includes replacement elements for over 10.000 part numbers covering almost every major international brands of filter elements. The majority of these are available from stock.

Continuous improvement of the materials used as well as strict quality controls which take into consideration international standards guarantee the consistently high performance data of the filter elements.

STAUFF impresses in particular with its:

- Innovative research, design and development
- Modern production lines with complete monitoring of production
- Certified work processes in accordance with:
 - ISO 9001:2008 Quality management
 - ISO 14001:2004 Environmental protection
 - OHSAS 18001:2007 Occupational health and safety
- Comprehensive stocks and quick delivery
- Customised products in accordance with customer drawings or on the basis of STAUFF designs
- Comprehensive worldwide network of wholly-owned subsidiaries and sales partners

The development and manufacture of STAUFF Filter Elements are subject to strict testing in accordance with:

- ISO 2941 Collapse and burst resistance
- ISO 2942 Verification of fabrication integrity (bubble point test)
- ISO 2943 Compatibility with hydraulic media
- ISO 3723 End load test
- ISO 3724 Flow fatigue characteristics
- ISO 3968 Flow characteristics
- ISO 16889 Filtration performance test (multi-pass method)

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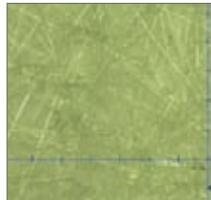


Filter Material – Quality And Properties

The choice of the right filter material is dependent on different criteria. Among others, this includes the type of application, the filter function, degree of contamination or alternatively the required dirt-hold capacity as well as requirements of chemical or physical resistance. Inorganic Glass Fibre, Polyester, Cellulose, Metal Fibre Material and Stainless Steel Wire Mesh are used for hydraulic applications.

The following list gives you an overview of how these five filter materials differ with regard to specific properties:

Inorganic Glass Fibre



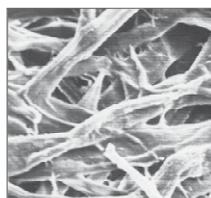
- Inorganic glass fibre based on synthetic fibres with acrylic resin binding
- Large dirt-hold capacity
- Excellent separation efficiency of the finest particles due to the three-dimensional labyrinth structure with deep-bed filtration
- Outstanding price/performance ratio

Polyester Fibre



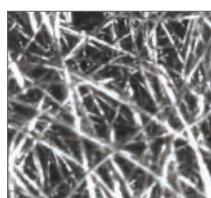
- 100% Polyester Fibres with thermal bonding
- High pressure differential resistance
- Good chemical resistance
- High separation efficiency of the finest particle
- Tear-proof structure

Cellulose Fibre



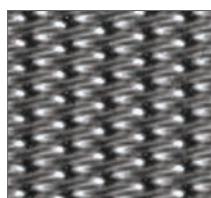
- Filter material made of Cellulose Fibres with special impregnation
- Variants with lowest price with good dirt-hold capacity
- Not suitable for water based fluids

Metal Fibre



- Sintered Metal Fibres with three-dimensional labyrinth structure for depth filtration
- Low flow resistance with high dirt-hold capacity
- Excellent chemical and thermal resistance

Stainless Steel Wire Mesh



- Wire mesh fabric made of material 1.4301 for surface (other material on request)
- Type of weave: square weave or Dutch weave
- Low flow resistance due to large-pored screening surface
- Excellent chemical and thermal resistance

STAUFF Glass Fibre Elements - 4PRO Filter Material

The PLUS for customers:

- Longer operating times through higher dirt-hold capacity
- Improved energy efficiency through lower pressure differential
- Excellent β values and outstanding β stability



4PRO

The **4PRO** stands for four pros that characterise STAUFF glass fibre materials:

- *pro*ACTIVE
- *pro*FESSIONAL
- *pro*GRESSIVE
- *pro*TECTIVE

Or simply:

- *Fo(u)r* Protection

In terms of the β -value, STAUFF Elements have always exhibited excellent performance. For those who take filtration seriously, there's no other valid approach - the measured values must hold under any inspection. The elements cannot afford any vulnerabilities.

The new generation of elements also have excellent dirt-hold capacity. Values that make it possible for the user to extend operating time thereby provide significant reductions to purchasing costs for elements as well maintenance costs.



Interchanging STAUFF Filter Elements

As well as original filter elements for our own filter housings, STAUFF also provides access to a comprehensive range of replacement filter elements. They match the quality and can be installed in the products of the following manufacturers (selection):

- Argo-Hytos
- Internormen
- Donaldson
- Mahle
- Eppensteiner
- Pall
- Hydac
- Parker

STAUFF offers many possibilities for filter conversion, design and calculation and in so doing supports interested parties and customers with the design of efficient solutions:

- Printed cross-reference list, available in a five-language version
- Online filter search with more than 65.000 data sets under www.filterinterchange.com
- Offline filter database with deposited measurements, filter surfaces and drawings
- Filter selection software for easy filter design and calculation

Thanks to their excellent dirt-hold capacity, all of the filter products supplied by STAUFF have an impressive long service life and high β -value stability:

- Inorganic Glass Fibre, Filter Paper, Stainless Fibre (micron ratings between 3 μm and 20 μm respectively) as well as stainless mesh (micron ratings between 10 μm and 500 μm)
- Maximum differential pressure depending on filter media and application for the options 16 bar / 232 PSI, 30 bar / 435 PSI or 210 bar / 3.000 PSI.

Protecting Filter Elements Against Direct Flow Impact



The sensitive filter belows on filter elements are frequently prone to damage during transportation, storage and filter replacement work. In addition, large particles in the flow of fluid may harm the filter material.

STAUFF offers a solution: SE and RE series filter elements with protective sheath (only available for glass fibre elements). This is a thin, perforated plastic sheet that completely encases the pleats of the filter from the outside as well as making the element more stable. A further positive effect is that the volume flow is distributed more evenly by the protective sheath, thus ensuring an efficient flow rate.

In its standard version, the foil is printed with the STAUFF 4PRO logo, eliminating any mix-up with other brands. Larger quantities can also be produced with a customised imprint on the sheath.

Know-how in pocket format



You can use the STAUFF online interchange database for replacement filter elements on your SmartPhone as well!

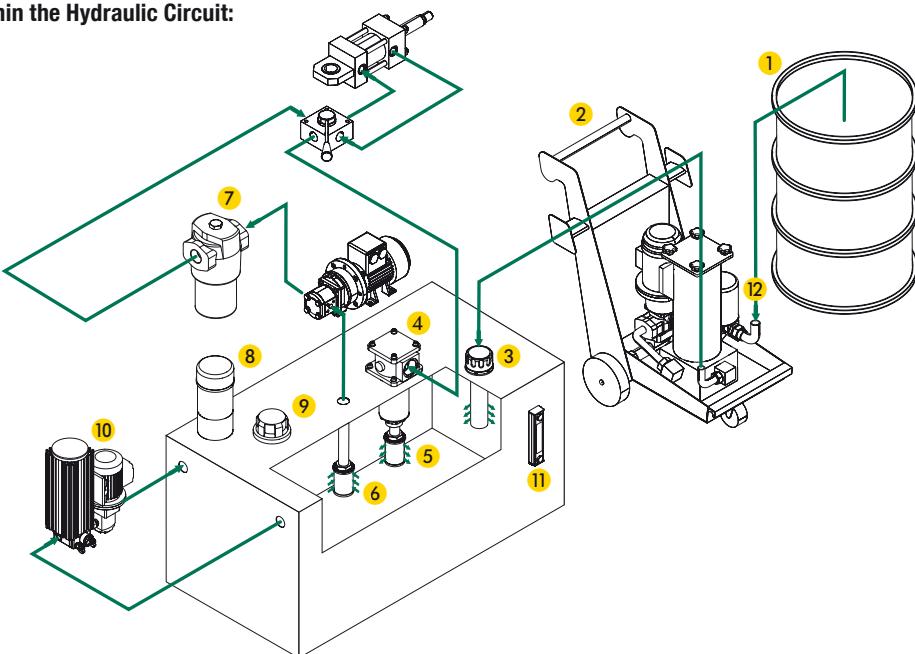
Simply **scan the QR code** displayed underneath or activate the browser on your SmartPhone, enter www.filterinterchange.com and save the website under Favorites or place into your Home screen.



Selected STAUFF Filter Components within the Hydraulic Circuit:

- 1 Oil drum
- 2 STAUFF Mobile Filter System
- 3 STAUFF Metal Filler Breather
- 4 STAUFF Return Line Filter
- 5 STAUFF Diffusor
- 6 STAUFF Suction Strainer
- 7 STAUFF Pressure Filter
- 8 STAUFF Desiccant Air Breather
- 9 STAUFF Plastic Filler Breather
- 10 STAUFF Offline Filter
- 11 STAUFF Level Gauge
- 12 STAUFF Spin-On Filter

- SMFS
- SMB*
- RF
- SRV
- SUS
- SF
- SDB
- SPB
- OLS
- SNA



STAUFF Filter Components

Pressure Filters 7 are placed behind the pump and clean the hydraulic oil before it flows through down-stream components like valves, cylinders and so on. The main reason for pressure filtration is the protection of downstream, sensitive components.

Eroded particles from the pump are immediately filtered out of the hydraulic oil. Besides working as a protection filter, pressure filters also help to maintain the required purity class.

Because it is placed right behind the pump, a pressure filter has to withstand the maximum system pressure. The filter element in the pressure filter also has to withstand the loads and is more intricately constructed, for example as a return line filters element.

Return Line Filters 4 are installed in the return line, on top of or within the oil tank. They filter the hydraulic oil before it flows back into the reservoir. This ensures that contamination arising in the components does not get into the tank. Return line filters maintain the targeted purity class like pressure filters. However, because of their arrangement, they do not fulfil the additional function of a protection filter. In contrast to a pressure filter, it only has to withstand low pressure levels.

Diffusers 5 are used in combination with return line filters and ensure that the returning oil flow is settled before it reaches the oil tank thereby preventing foaming and re-suspension of deposited dirt.

The job of **Suction Strainers** 6 is mainly to provide functional protection of the downstream pumps in the circulation. Suction strainers always have to be provided if the risk of pump damage from coarse impurities is particularly high. This risk exists if impurities are collected in the tank and if they can't be filtered out afterwards. Suction strainers are coarse filter elements with a micron rating that is usually bigger than 100 µm.

Filler Breathers 3 / 9 are mounted on the oil tank and prevent the entry of dirt from the surroundings during tank breathing. They should be chosen with a filter unit that is similar to the working filter (pressure filter, return line filter).

The replacement cycles of filter inserts are highly dependent on the surrounding conditions of the hydraulic system.

Another variant of the breather is the **Desiccant Air Breather** 8. The additional function of this filter is dehumidification of the inflowing air with a special silicate gel.

Offline / Bypass Filters 10 are not part of the main hydraulic system. They are supplementary to achieve the best possible filtration results. Because of the high efficiency of the offline / bypass filters, purity levels are reached that cannot be achieved with conventional main filter systems.

Offline Filters work with an integrated motor/pump unit that draws in the fluid from the system, filters it and then feeds it back into the tank. Because the offline filter is independent from the hydraulic main circuit, i.e. it can still be operated if the hydraulic system is switched off, it is used in practice for continuous cleaning of the tank.

Bypass Filters on the other hand use the existing system pressure to draw a small volumetric flow out of the hydraulic system for filtration. They are only active while the unit is in operation.

Another mobile variant of the bypass filter is the **Mobile Filter System** 2.

STAUFF provides a complete range of **Spin-On Filters** 12 which can be used either as suction filters or as return line filters for low pressure applications.



Description

STAUFF Pressure Filters were designed for in-line mounting in hydraulic and lubrication systems. They are placed behind the pump and clean the hydraulic oil before it flows through down-stream components like valves, cylinders and so on. The main reason for pressure filtration is the protection of downstream, sensitive components. Eroded particles from the pump are immediately filtered out of the hydraulic oil. Besides working as a protection filter, pressure filters also help to maintain the required purity class.

Because it is placed right behind the pump, a pressure filter has to withstand the maximum system pressure. The filter element in the pressure filter also has to withstand the loads and is more intricately constructed, for example as a return line filters element.

STAUFF Pressure Filters are available in many different sizes, connections and configurations.



Type SF

- High pressure filter designed for in-line assembly
- Threaded mounting holes on top and fluid ports on side of head
- Also available as toploader, with bowl in two-part style
- Operating pressure: max. 420 bar / 6.000 PSI
- Nominal flow rate: max. 1.320 l/min / 300 US GPM
- Materials: Filter head: Spheroidal Graphite Cast Iron, Filter bowl: Cold Drawn Steel
- Connections: option of BSP, NPT, SAE thread or SAE flange (ISO 6162-1/2)



Type SF-TM

- High pressure filter designed for manifold mounting
- Mounting holes and fluid ports on top of head
- Also available as toploader, with bowl in two-part style
- Operating pressure: max. 315 bar / 4.560 PSI
- Nominal flow rate: max. 1.320 l/min / 300 US GPM
- Materials: Filter head: Spheroidal Graphite Cast Iron or rather Free Cutting Steel, Filter bowl: Cold Drawn Steel



Type SF-SM

- High pressure filter designed for manifold mounting
- Mounting holes and fluid ports on side of head
- Also available as toploader, with bowl in two-part style
- Operating pressure: max. 315 bar / 4.560 PSI
- Nominal flow rate: max. 1.320 l/min / 300 US GPM
- Materials: Filter head: Spheroidal Graphite Cast Iron, Filter bowl: Cold Drawn Steel

Media Compatibility

- Mineral oils, other fluids on request

Options and Accessories

Valve

- Also available with bypass, reverse flow, non-return or multi-function valve

Clogging Indicator

- On request with visual, electrical or visual-electrical differential pressure indicator



Type SFZ

- High pressure filter designed for sandwich plate mounting
- Available as right or left version
- Operating pressure: max. 315 bar / 4.560 PSI
- Nominal flow rate: max. 30 l/min / 8 US GPM
- Materials: Filter head: Free Cutting Steel, Filter bowl: Cold Drawn Steel



Type SFA

- Medium pressure filter designed for in-line assembly
- Threaded mounting holes on top and fluid ports on side of head
- Low weight and compact design
- Operating pressure: max. 160 bar / 2.320 PSI
- Nominal flow rate: max. 240 l/min / 70 US GPM
- Materials: Filter head: Cast Aluminium, Filter bowl: Aluminium
- Connections: option of BSP, NPT, SAE-thread or SAE flange (ISO 6162-1)



Type SMPF

- Medium pressure filter designed for in-line assembly
- Operating pressure: max. 110 bar / 1.160 PSI
- Nominal flow rate: max. 90 l/min / 25 US GPM
- Materials: Filter head and bowl: Aluminium
- Connections: BSP, SAE-thread



Description

STAUFF Return Line Simplex Filters SRFL-S and Duplex Filters SRFL-D are designed for in-line hydraulic applications. With its compact construction and the easy to maintain assembly the SRFL-S and SRFL-D Filters are suitable for flow rates up to 7.000 l/min / 1.850 US GPM.

The two housings of the Duplex Filter SRFL-D are connected with a special gate valve that is operated with a lever or hand wheel. Therefore the filter may be serviced without shutting down the hydraulic system.

The STAUFF Return Line Filter SRFL-SW is designed for installation in water circulations. This filter can be used for cleaning of e.g. industrial water or descaling systems. The filter elements are designed as basket strainers, which keep the dirt during the element change.



Type SRFL-S

- Version: Simplex
- Operating pressure: max. 14 bar / 200 PSI
- Nominal flow rate: max. 7.000 l/min / 1.850 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI, DIN or SAE flange (ISO 6162-1/2)



Type SRFL-D

- Version: Duplex
- With switch control for maintenance of the system without stoppage
- Operating pressure: max. 14 bar / 200 PSI
- Nominal flow rate: max. 7.000 l/min / 1.850 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI, DIN or SAE flange (ISO 6162-1/2)



Type SRFL-SW

- Version: Simplex, suitable for Water
- Operating pressure: max. 16 bar / 232 PSI
- Nominal flow rate: max. 13.000 l/min / 3.434 US GPM
- Materials: Filter housing: Carbon Steel, Stainless Steel (on request)
- Connections: ANSI or DIN flange

Media Compatibility

- Mineral oils, lubrication oils, others on request

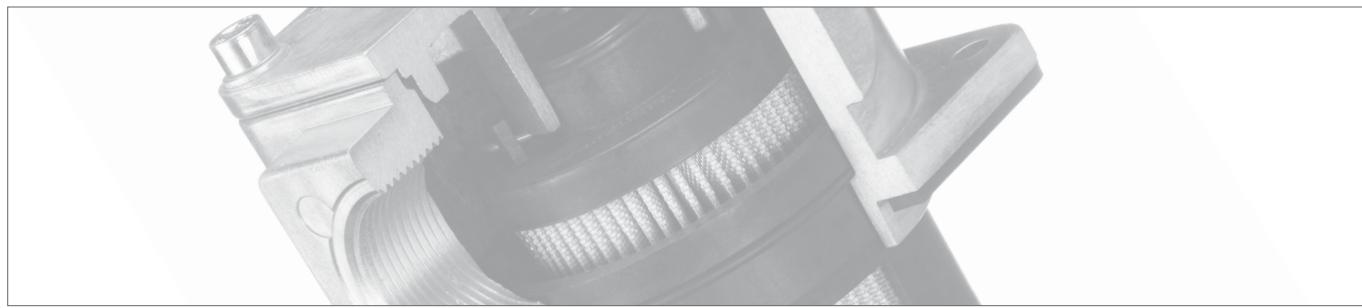
Options and Accessories

Valves (except REL Filter Elements)

- Bypass valve (integrated in the filter element)

Clogging Indicators

- On request with visual or electrical differential pressure indicator
- The SRFL-SW is also available with an visual-electrical differential pressure indicator



Description

STAUFF Return Line Filters were designed as filters for tank-top mounting, tank-inside mounting or inline mounting. They filter the hydraulic oil before it flows back into the reservoir. This ensures that contamination arising in the components does not get into the tank. Return line filters maintain the targeted purity class like pressure filters. However, because of their arrangement, they do not fulfil the additional function of a protection filter. In contrast to a pressure filter, it only has to withstand low pressure levels.

The practical design of STAUFF Return Line Filters enables quick assembly as well as easy exchange of the filter elements.



Type RF

- Filter bowl with option of thread connection (e.g. STAUFF Diffuser SRV) or leakage oil connection
- Operating pressure: max. 16 bar / 232 PSI
- Nominal flow rate: max. 500 l/min / 130 US GPM
- Materials: Filter head: Aluminium, Filter bowl: PA
- Connections: option of BSP, NPT, SAE thread or SAE flange (ISO 6162-1)



Type RIF300

- Easy and quick exchange of filter elements
- Operating pressure: max. 34,5 bar / 500 PSI
- Nominal flow rate: max. 1.135 l/min / 300 US GPM
- Materials: Filter head: Aluminium, Filter bowl: Steel, Filter Cover: Cast Iron
- Connection: SAE flange



Type RTF

- Filter bowl is designed to return the oil beneath the surface thus preventing entrainment of air
- Filter head with option of integrated air filter
- Operating pressure: max. 10 bar / 49 PSI
- Nominal flow rate: max. 379 l/min / 100 US GPM
- Materials: Filter head: Aluminium, Filter bowl: PA or Steel
- Connection: option of BSP or NPT, others on request



Type RTF-N

- Return line insert filter
- Custom reservoir design with an in-tank filtering system
- Magnetic pre-filtration
- Operating pressure: max. 10 bar / 145 PSI
- Nominal flow rate: max. 500 l/min / 132 US GPM
- Materials: Flange plate: Aluminium, Magnet rod / Bypass / Diffuser: Steel

Media Compatibility

- Mineral oils, others on request

Options and Accessories

Valves

- Bypass valve integrated in the filter element (except STAUFF Return Line Filters RIF300 and STAUFF Return Line Filters of types RTF)

Clogging Indicators

- On request with visual clogging indicator or electrical clogging switch
- Others on request



Type RFA

- Filter bowl with option of thread connection (e.g. STAUFF Diffuser SRV) or leakage oil connection
- Operating pressure: max. 25 bar / 365 PSI
- Nominal flow rate: max. 110 l/min / 30 US GPM
- Materials: Filter housing: Aluminium
- Connection: SAE thread



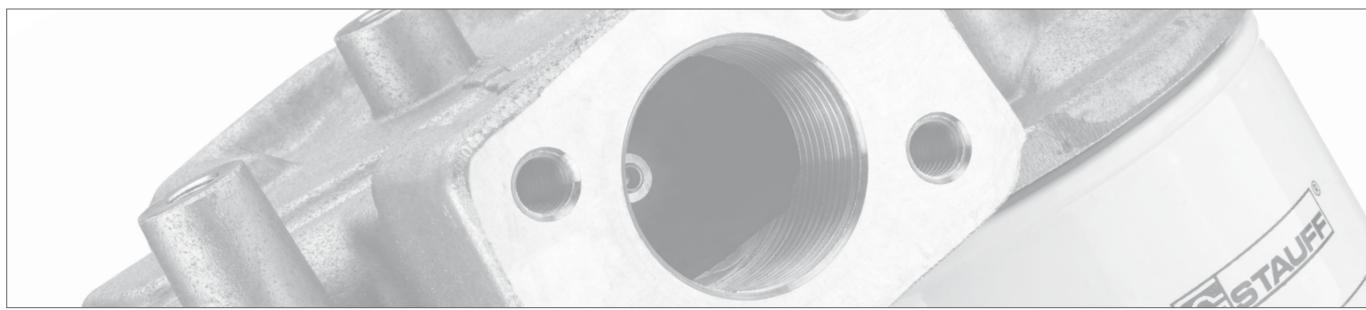
Type RFB

- Low weight and compact design
- Filter bowl with option of thread connection
- Filter head with option of integrated air filter
- Operating pressure: max. 10 bar / 145 PSI
- Nominal flow rate: max. 185 l/min / 52 US GPM
- Materials: Filter head: Aluminium, Filter bowl: PA
- Connections: option of BSP, NPT, SAE thread



Type RFS

- Robust design, suitable for high flow rates
- Filter bowl with option of BSP or SAE flange
- Operating pressure: max. 25 bar / 365 PSI
- Nominal flow rate: max. 1.135 l/min / 300 US GPM
- Materials: Filter head and bowl: Steel
- Connections: option of BSP or SAE flange (ISO 6162-1)



Description

STAUFF provides a complete range of Spin-On Filters which can be used either as suction filters or as return line filters for low pressure applications. The various ranges meet international standards.

Material

- Filter head: Aluminium

Media Compatibility

- Mineral oils, others on request

Connections

- BSP
- NPT
- SAE flange
- SAE thread
- Other ports connections on request

Operating Pressure

- Max. 14 bar / 200 PSI

Temperature Range

- -30 °C ... +100 °C / -22 °F ... +212 °F

Nominal Flow Rate

- Max. 460 l/min / 120 US GPM

Options and Accessories

Clogging Indicators

- Visual clogging indicator with coloured segments
- Electrical clogging switch
- Other types are available on request

Private Labelling

- On request, the filter elements can be printed with a private label



Spin-On Filter Heads designed for in-line assembly

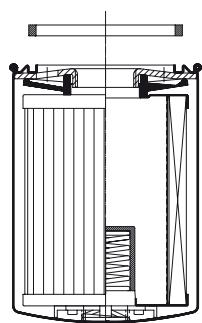


Spin-On Filter Heads designed for tank top assembly



Spin-On Double Filter Heads designed for in-line assembly

Spin-On filter with **seal contour A**
for filter elements with inner seal

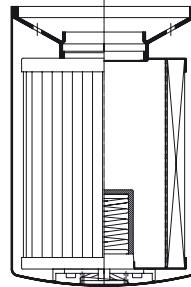


A

Spin-On filter with **seal contour B**
for filter elements with outer seal

Allowed seal types for Spin-On elements:

- thin seal
- wide seal
- L-shaped seal



B



Description

STAUFF offers a wide range of Spin-On filter heads and Spin-On filter elements.

Sealing Material

- NBR (Buna-N®)

Media Compatibility

- Mineral oils, other fluids on request

Temperature Range

- -32 °C ... +100 °C / -25 °F ... +212 °F



Types SFC-35/36, SFCT-35/36

- Use with Spin-On filter heads SSF-12B and SSFT-12B (tank top)
- Connection thread: G3/4
- Operating pressure: SFC: max. 12 bar / 174 PSI
SFCT: max 7 bar / 100 PSI
- Differential Pressure: SFC: max. 4 bar / 58 PSI
SFCT: max. 3 bar / 43,5 PSI
- Burst Pressure: SFC: min. 25 bar / 363 PSI
SFCT: min 21 bar / 305 PSI



Type SF63

- Use with Spin-On filter head SLF
- Connection thread: 3/4-16 UNF
- Operating pressure: max. 14 bar / 200 PSI
- Differential Pressure: max. 5,5 bar / 80 PSI
- Burst Pressure: min. 20 bar / 290 PSI



Type SF67

- Use with Spin-On filter heads SSF20/24/25/100/120/130/150/160 und 180
- Connection thread: 1/2-16 UNF
- Operating pressure: max. 14 bar / 200 PSI
- Differential Pressure: max. 5,5 bar / 80 PSI
- Burst Pressure: min. 20 bar / 290 PSI

Filter Materials

- Wire Mesh, Brass Mesh, Filter Paper, Inorganic Glass Fibre,
Stainless Wire Mesh and Water Absorbing Filter Material

Options and Accessories

Valves

- Filter elements type SFCT have an internal bypass and anti-drain back diaphragm
- On request with private labelling



Types SFC-57/58, SFCT-57/58

- Use with Spin-On filter heads SSF-20/24/25/100/120/130/160 and SSFT-20B (tank top)
- Connection thread: G1-1/4
- Operating pressure: SFC: max. 12 bar / 174 PSI
SFCT: max 7 bar / 100 PSI
- Differential Pressure: SFC: max. 4 bar / 58 PSI
SFCT: max. 3 bar / 43,5 PSI
- Burst Pressure: SFC: min. 25 bar / 363 PSI
SFCT: min 21 bar / 305 PSI



Type SF65

- Use with Spin-On filter head SAF
- Connection thread: 1-12 UNF
- Operating pressure: max. 14 bar / 200 PSI
- Differential Pressure: max. 5,5 bar / 80 PSI
- Burst Pressure: min. 20 bar / 290 PSI



Private Labelling

- On request, the filter elements can be printed with a private label



Description

STAUFF Offline Filter Units can be applied to every imaginable industrial application where hydraulic or lubrication systems are present.

An integrated motor/pump unit draws fluid out of the tank, filters it and pumps clean oil back into the system. Offline Filter Units can continue to work even when the main system is not in use. The standard range offers filter units for reservoirs with a capacity of up to 10.800 l / 2.853 gal. The OLS is available with one, two or four filter housings and in two different lengths. The maximum flow for the Offline Unit goes from 2,1 ... 17 l/min / .55 ... 4.5 US GPM at a viscosity between 20 ... 160 cSt.

Over the years, STAUFF Systems have developed considerable experience in the hydraulic and lubrication market cleaning systems to levels not previously possible with conventional methods. For the OLS you can choose several different motor/pump units.

All Offline Filter Systems are available with air driven motors. These units are ideal for areas where electric power is unavailable or for hazardous locations.



Type OLS

- Offline Filter System with integrated motor/pump unit
- Available with one, two or four filter housings in two different lengths
- Housing pressure: max. 20 bar / 290 PSI
- Nominal flow rate: max. 17 l/min / 4.5 US GPM
- System volume: max. 10.800 l / 2.853 gal
- Connections: G3/8, G1/2 and G3/4, 18L



Type OLSW

- Water absorbing filter elements
- Special designed for industrial applications
- Prevention of channel forming by radial filtration direction
- Extremely clean oil due to the high filtration efficiency $B_{0.5} \geq 200, B_2 \geq 2330$
- Increased flow capacity and dirt-hold capacity
- Compact and easy-maintenance design
- Large water holding capacity
- Longer usage life for oil and components

Material

- Housing: Anodized Aluminium

Differential Pressure

- Max. 6,2 bar / 90 PSI

Temperature Range

- Max. +80 °C / +176 °F media temperature

Media Compatibility

- Mineral and lubrication oils, others on request

Options and Accessories

Clogging Indicators

- Visual Clogging Indicators

Power Supply E-Motor

- Various electrical power supplies possible



Type OLSH

- Pre-heating unit and extremely efficient filter elements
- Extremely clean oil due to the high filtration efficiency $B_{0.5} \geq 200, B_2 \geq 2330$
- Prevention of channel forming by radial filtration direction
- Increased flow capacity
- Increased dirt holding capacity
- Large water holding capacity
- Compact and easy maintenance design
- Longer usage life for oil and components



Type SMWV

- Designated oil purification unit, it dehydrates and cleans most types of oils such as lubricating, hydraulic, transformer and switch oils
- Efficient water, gas and particle removal
- System volume: max. 3.000 l / 795 gal
- Recirculating flow rate: 90 l/h / 23.8 gal/hr
- Backpressure: max. 1 bar / 14.5 PSI
- Extension of fluid life
- Reduces fluid disposal
- Minimizes corrosion
- Reduced failures and downtime
- Reduce operating costs



Description

STAUFF BPS Bypass Filter can be used for OEM first fit applications as well as for retro-fitting. The filtration is done in a bypass configuration from the main hydraulic system.

The STAUFF BPS Filter Systems are available with one filter housing (BPS-1A, maximum flow 2,1 l/min / .6 US GPM) or with two filter housings (BPS-2A, maximum flow 4,2 l/min / 1.1 US GPM) at a viscosity between 20 ... 160 cSt. The STAUFF Bypass Filter Units are especially designed for mobile applications in hydraulic and/or transmission systems.

In the absence of a pumped system, the oil is drawn from the main system by means of a specially designed and integrated flow valve. The amount of oil extracted at any one time is insignificant therefore ensuring that it will not affect the working of the main system. Most commonly used biodegradable oils in the mobile sector are suitable for filtration with STAUFF Filter Elements.

STAUFF Systems have been applied on a wide range of mobile hydraulic machinery, cleaning fluids to levels not previously possible with conventional filtration methods, resulting in dramatic increases in component life.



Type BPS

- Bypass filter units are especially designed for mobile applications in hydraulic and/or transmission systems
- No special motor-pump unit is required
- Housing pressure: max. 20 bar / 290 PSI
- Nominal flow rate: max. 4,2 l/min / 1.1 US GPM
- System volume: max. 1.500 l / 400 gal
- Connections: G1/4, G1/2
- Pressure range: 12 ... 420 bar / 180 ... 6.200 PSI



Type BPLS

- Bypass lube-oil filter
- Additional micro filter
- Less malfunctioning
- Greater reliability of operation
- Prolonged oil usage life
- Reduced down time
- Reduced wear on cylinder linings and pistons
- Less bore polishing
- Less formation of black sludge
- Increased equipment life time

Material

- Housing: Anodized Aluminium

Differential Pressure

- Max. 6,2 bar / 90 PSI

Temperature Range

- Max. +80 °C / +176 °F media temperature

Media Compatibility

- Mineral and lubrication oils, others on request

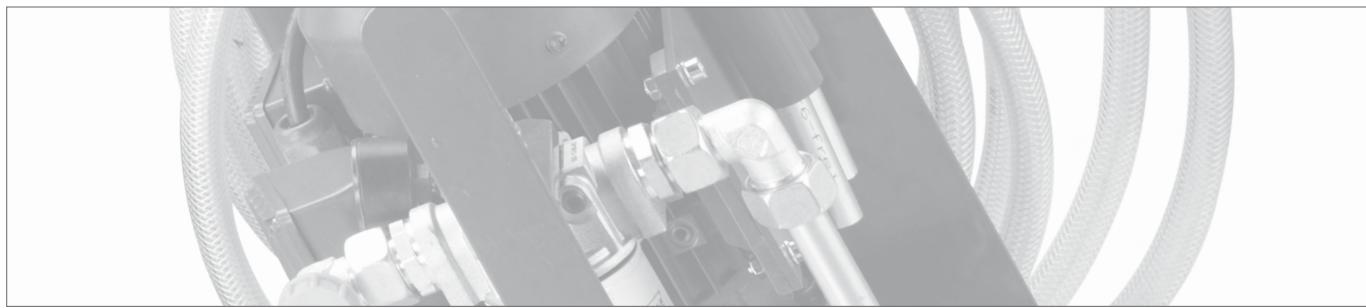
Options and Accessories (only for BPS)

Clogging Indicators

- Visual clogging indicators

Valves

- Available with flow control valve



Description

Mobile Filter Systems from STAUFF already covered a wide spectrum of use: On the one hand compact and versatile, on the other hand designed for long-lasting use and highest nominal flow rates, the support the preventive maintenance of hydraulic and lubrication systems, thus providing extended maintenance intervals and helping to reduce operating costs within shortest payback periods.

To cover region specific requirements STAUFF has a large range of different mobile filter systems.



Type SMFS-P-015

- Portable hand-held unit
- Compact and light-weight design
- Very flexibility
- High-quality gear pump
- Nominal flow rate: max. 15 l/min / 4 US GPM
- Motor versions: 230 V 50 Hz or 400 V 50 Hz
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element for the reason of used oil to be removed from the hydraulic reservoir
- Weight: approx. 23 kg / 51 lbs



Type SMFS-U-030

- Mobile filtration system
- Robust steel frame push cart
- Maximum flexibility
- High-quality gear pump
- Nominal flow rate: max. 30 l/min / 8 US GPM
- Motor versions: 230 V 50 Hz oder 400 V 50 Hz
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element for the reason of used oil to be removed from the hydraulic reservoir
- Weight: approx. 46 kg / 101 lbs

Media Compatibility

- Suitable for mineral oils, other media on request

Options and Accessories

- Visual clogging indicators
- Lance and hoses
- Replacement filter elements



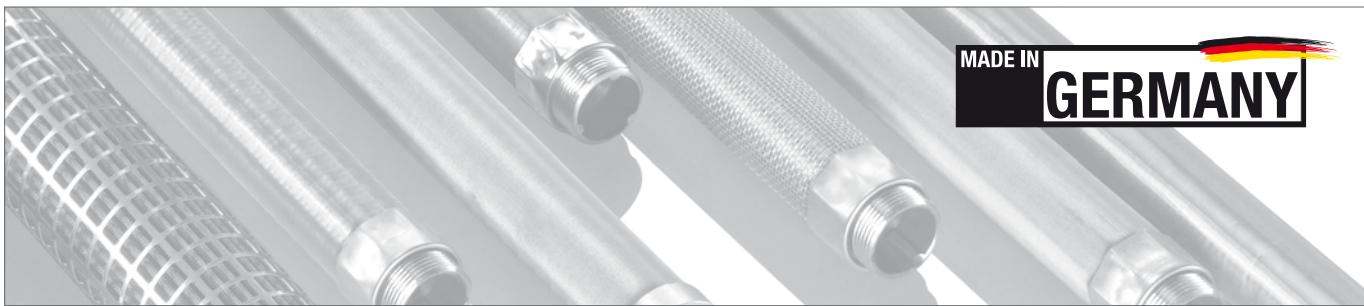
Type SMFS-U-060

- Mobile filtration system
- High nominal flow rates
- Long-term operating times
- High-quality gear pump
- Nominal flow rate: max. 60 l/min / 15 US GPM
- Motor unit 400 V 50 Hz
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element for the reason of used oil to be removed from the hydraulic reservoir
- Weight: approx. 87 kg / 192 lbs



Type SMFS-U-110

- Mobile filtration system
- High nominal flow rates
- Long-term operating times
- High-quality gear pump
- Nominal flow rate: max. 110 l/min / 30 US GPM
- Motor unit 400 V 50 Hz
- Micron rating available from 3 ... 125 µm
- Also available with a blank filter element for the reason of used oil to be removed from the hydraulic reservoir
- Weight: approx. 130 kg / 287 lbs

**Description**

We supply replacement filter elements for single, double and automatic filters which are qualified for various type of fluids such as lubricating oils, heavy fuels, water, chemicals and cooling lubricants.

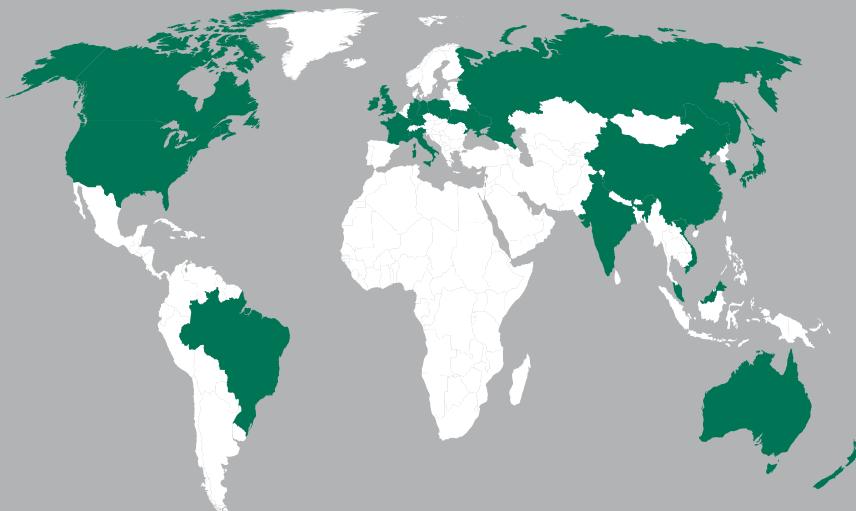
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For more than ten years, we provide shipping companies as well as ship chandlers and traders with hydraulic filters and replacement filter elements for filter housings of other manufacturers.

**Screw-In and Plug-In Elements****Star-Pleated Elements, Basket and Ring Sieves****Heavy Fuel Elements****Paper, Inorganic Glass Fibre and Polyester Elements****Plastic Elements****Multimantle Elements**



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